



Reliability of High Power Diode Laser Arrays

Task Manager: Carl Magee (LaRC)

Objective

- Identify specific degradation physics applying to high power diode arrays
- Establish flight validation guidelines for high power diode arrays
- Assess space flight reliability of current COTS high power diode arrays
- Disseminate information to NASA and the space community

Participating Centers

Deliverables

- Basic 60w/Bar AlGaAs Laser Diode Array Measurement Test Report (FY01\Q2)
- Precision Temporal 60w/Bar AlGaAs Laser Diode Array Measurement Test Report (FY01\Q3)
- “Test-To-Failure” 60w/Bar AlGaAs Laser Diode Array Measurement Test Report (FY01\Q4)
- 60w/Bar AlGaAs Laser Diode Array Preliminary Data Analysis Test Report (FY01\Q4)